**Artificial Selection ESSAY**

**WRITE A 500 to 1000 WORD ESSAY** ON SELECTION IN EVOLUTION

1. Compare and contrast Natural selection and Artificial Selection
2. Provide a detailed example of Natural Selection in an organism (you may choose to provide more)
3. Provide a detailed example of Artificial Selection in an organism (you may choose to provide more)
4. Explain how you would further promote a specific trait in the organism you chose for artificial selection.
5. CITE YOUR SOURCES

**YOU WILL BE GRADED ON:**

* **Focus** in your writing (does it make sense, does it have a clear purpose)
  + Natural selection is defined in terms non-scientists can understand
  + Artificial selection is defined in terms non-scientists can understand
  + The similarities between natural and artificial selection are explained
  + The differences between natural and artificial selection are explained
* Quality and amount of **supporting materials** (is it informative, are the examples you choose relevant)
  + a clear example of natural selection is explained in detail
    - what the organism is
    - how traits are selected for in nature
    - the impact of the selection on the organism is clear
  + a clear example of artificial selection is explained in detail
    - what the organism is
    - how traits are selected for artificially
    - the impact of the selection on the organism is clear
  + a hypothesis of how to further select for a trait is presented and explained
* **Organization** (is there an introduction, body, and conclusion)
* How well you show the **relationship**s between the ideas and between your examples
* **GUMS** (grammar, usage, mechanics, spelling)
* Appropriate use and explanation of science **vocabulary**

**Some helpful resources to start you out:**

* <http://evolution.berkeley.edu/evolibrary/article/0_0_0/evo_25> - a tutorial on the difference between natural and artificial selection
* <http://www.windows2universe.org/earth/changing_planet/mosquito_dna.html> - a current example of natural selection in action (mosquitos)
* [Peppered Moth Simulation](http://www.biologycorner.com/worksheets/pepperedmoth.html) - The Peppered Moth Lab we did in class
* <http://www.learner.org/courses/essential/life/session5/closer1.html> - a definition of artificial selection and some examples
* <http://evolution.berkeley.edu/evolibrary/news/070201_corn> - an explanation and example of artificial selection (corn)
* <http://www.windows2universe.org/cool_stuff/tour_evolution_7.html> - dog breeding information